

36

multiplexed digital data synchronously related to the base station broadcast signal for communication from identified individual subscriber units within designated geographic service areas, comprising in combination,

base station data processing and transmission facilities for transmitting to a set of local subscriber units and receiving from a subset of those local subscriber units multiplexed synchronously related digital data messages of variable lengths for point-to-point communication between individual subscribers with remotely located reception stations,

base station reception means for receiving and processing data messages from the set of local subscriber units at that base station comprising a set of cell subdivision sites partitioned from said base station geographic area and dispersed over the base station geographic area, each cell subdivision site being adapted for receiving-only low power digital messages transmitted from local subscriber units within range of the partitioned cell site areas, and

a set of local subscriber transceiver units including low power mobile units located within the base station geographic area each adapted to communicate with said base station by way of digital data signals of variable lengths synchronously related to said base station broadcast signal and timed for said multiplexed message transmission.